

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2004/004816

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07D471/04 C07D495/04 C07D513/04 C07D473/22 C07D473/18
A61K31/522 A61P25/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, WPI Data, EMBASE, BEILSTEIN Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	TANAKA K ET AL: "Synthesis and reaction of 5-amino-3-trifluoromethylisoxazole and -pyrazole-4-carboxylic acids" J. HETEROCYCLIC CHEMISTRY, vol. 23, 1986, pages 1535-1538, XP002315651 compounds 11,12	1
X	DECK L M ET AL: "Reactions of isocyanates with methyl N-(cyanothioformyl)anthranilate" J. HETEROCYCLIC CHEMISTRY, vol. 40, September 2003 (2003-09), pages 885-893, XP002315652 table 3; compounds 9A, 9E, 9H	1
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

18 February 2005

Date of mailing of the international search report

01/03/2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DAVE C G ET AL: "Pyridopyrimidines. X. Synthesis of 3-substituted 2-thioxo-5,7-dimethylpyrido[2,3-d]pyrimidin-4(3H)-ones and their S-alkylation under phase transfer conditions" J. HETEROCYCLIC CHEMISTRY, vol. 38, 2001, pages 457-461, XP002315653 table 3; compounds 3A-J, 6K-T	1
X	DAWOOD K M ET AL: "Electrolytic partial fluorination of organic compounds. 35. Anodic fluorination of 2-pyrimidyl, 2-pyridyl, and 2-quinazolinonly sulfides" J. ORG. CHEMISTRY, vol. 64, 1999, pages 7935-7939, XP002315654 table 1; compounds 3, 9C	1
X	DATABASE CROSSFIRE BEILSTEIN BEILSTEIN INSTITUTE FOR ORGANIC CHEMISTRY, FRANKFURT-MAIN, DE; XP002315655 Database accession no. BRN: 5445847 abstract & INDIAN J. CHEM. SECT. B, vol. 31, no. 4, 1992, pages 223-229,	1
X	DATABASE CROSSFIRE BEILSTEIN BEILSTEIN INSTITUTE FOR ORGANIC CHEMISTRY, FRANKFURT-MAIN, DE; XP002315656 Database accession no. BRN: 9153112 abstract & SANTAGATI N A ET AL: J. PHARM. PHARMACOL., vol. 54, no. 5, 2002, pages 717-728,	1
X	DATABASE CROSSFIRE BEILSTEIN BEILSTEIN INSTITUTE FOR ORGANIC CHEMISTRY, FRANKFURT-MAIN, DE; XP002315657 Database accession no. BRN: 4202227 abstract & LIEBIGS ANN. CHEM., vol. 9, 1990, pages 901-911,	1
X	DATABASE CROSSFIRE BEILSTEIN BEILSTEIN INSTITUTE FOR ORGANIC CHEMISTRY, FRANKFURT-MAIN, DE; XP002315658 Database accession no. BRN: 300530 abstract & J. AMER. CHEM. SOC., vol. 82, 1960, page 964,	1
	-/-	

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 02/076946 A2 (NOVARTIS AG; NOVARTIS-ERFINDUNGEN VERWALTUNGSGESELLSCHAFT M.B.H; CULSH) 3 October 2002 (2002-10-03) page 6, line 3 - page 9, line 2; claim 1 -----	1-11
A	WO 03/014064 A1 (BAYER AKTIENGESELLSCHAFT; YURA, TAKESHI; MOGI, MUNETO; IKEGAMI, YUKA;) 20 February 2003 (2003-02-20) page 6, line 24 - page 10, line 19 -----	1-11

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Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: —
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 10,11 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compounds.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 02076946	A2	03-10-2002	BR 0208338 A	09-03-2004
			CA 2441599 A1	03-10-2002
			CZ 20032561 A3	17-12-2003
			EP 1377576 A2	07-01-2004
			HU 0303623 A2	01-03-2004
			JP 2004528312 T	16-09-2004
			MX PA03008754 A	18-02-2004
			NO 20034122 A	16-09-2003
			SK 11952003 A3	02-03-2004
			US 2004138454 A1	15-07-2004
			ZA 200306636 A	19-08-2004
WO 03014064	A1	20-02-2003	JP 2003055209 A	26-02-2003
			CA 2455754 A1	20-02-2003
			EP 1414788 A1	06-05-2004
			US 2004259875 A1	23-12-2004